

## Product datasheet for **MR207616**

### **Cndp2 (NM\_023149) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cndp2 (NM_023149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cndp2
Synonyms:	0610010E05Rik; C76600; Cn2; Dip-2; Pep-1; Pep1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207616 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCAGCCCTCAAAGCTGTCTTCCAGTATATCGATGAAAACCAGGACCGCTACGTCAGAAACTTGCAG  
 AATGGGTGGCCATCCAGAGCGTGTCCGCATGGCCGAGAAGAGAGAGAGATCAGAAGGATGATGGAGGT  
 GGCAGCTGCCGATGTCCAGAGGCTGGGGGGCTCCGTGGAAGTGGTGGATATTGGGAAGCAGAAGCTCCCA  
 GATGGCTCGGAGATACCACTTCTCCATTCTGCTGGCAAGCTAGGCAGCGACCCCAAGAAAACCG  
 TGTGCATTTACGGGCACCTGGACGTGCAGCCTGCGGCCCTGGAGGACGGTGGGACAGCGAGCCCTTAC  
 CTTGGTGGAGCGGAAGCAAGCTGTATGGGAGAGGCTCCACGGACGATAAGGGGCCAGTGGCCGGGTGG  
 ATGAATGCCCTGGAAGCCTATCAGAAGACTGGTCCAGGAGATCCCAGTCAACCTGCGGTTCTGCCTGGAAG  
 GCATGGAGGAGTCTGGCTCCGAAGGCCTGGATGAGCTCATTTTTGCCAGAAAGACAAGTCTTCAAAGA  
 TGTGGACTATGTGTGATTTAGACAATTACTGGCTGGGAAGAATAAGCCGTGTATCACGTACGGCCTC  
 AGAGGCATCTGTTACTTCTTCATCGAGGTGGAATGCAGTGACAAAAGACCTCCATTCTGGGTATATGGAG  
 GCTCAGTGCACGAGGCCATGACGGATCTCATTTCACTGATGGGCTGCCTGGTAGACAAGAAGGGGAAGAT  
 CCTCATCCCGGCATCAACGATGCCGTGGCGCCTGTGACGGATGAGGAGCATGCGCTCTACGACCACATT  
 GACTTCGATATGGAAGAGTTCGCCAAGGACGTGGGGGCTGAGACCCTTCTGCACAGCTGCAAGAAAGACA  
 TCCTGATGCACAGATGGCGATACCCGTCCTCTCCCTGCATGGGATCGAAGGGGCCTTCTCCGGTTCAGG  
 GGCAAGACTGTGATCCCAGAAAGGTGGTCGGCAAGTCTCCATCAGGCTCGTCCAGACATGATACCG  
 GAAGTTGTTAGCGAGCAAGTTTCAAGCTACTTGTCAAAAAATTTGCTGAACTGCAGAGCCCAACAAGT  
 TCAAGTGTACATGGGCCACGGCGGAAGCCCTGGGTGTCTGACTTCAACCATCCTCATTACCGCGGG  
 GAGAAGAGCCCTGAAGACAGTGTGGTGGTGGCTGACTTGACCAGAGAAGGTGGCAGTATTCTGTG  
 ACCTTGACCTTTCAAGAGGCCACAGGCAAAAATGTCATGCTATTGCCAGTGGGGTCAAGCAGATGACGGT  
 CCCACTCGCAGAAATGAGAAGCTCAACAGGCTCACTACATAGAAGGAACCAAAATGCTGGCTGCATATCT  
 GTATGAGGTGTCTCAGCTGAAGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207616 protein sequence  
 Red=Cloning site Green=Tags(s)

MSALKAVFYIDENQDRYVKKLAEWVAIQSVSAWPEKRGEIRRMMEVAAADVQRLGGSVELVDIGKQKLP  
 DGSEIPLPPIILLGKLGSDPQKKTVCYIYGHLDVQPAALDGDWSEPFTLVEREGKLYGRGSTDDKGPVAGW  
 MNAL EAYQKTGQEIPVNLRFCEGMEESGSEGLDELIFAQKDKFFKDVDVYVCISDNYWLGNKPCITYGL  
 RGI CYFFIEVECSDKDLHSGVYGGSVHEAMTDLISLMGCLVDKKGKILIPGINDAVAPVTDEEHALYDHI  
 DFDMEEFKDVGAETLLHSCCKDILMHRWRYPSSLHGIEGAFSGSGAKTVIPRKVVGKFSIRLVPMIP  
 EVVSEQVSSYLSKKFAELQSPNKFVYMGHGKPVVSDFNHPHYQAGRRALKTVFVPEPDLTREGGSIPV  
 TLTQFEATGKNVMLLPVGSADDGAHSQNEKLNRLNYIEGTMKMLAAYLYEVSQLKN

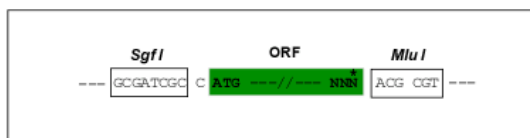
**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_023149

**ORF Size:** 1428 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_023149.3](#)
**RefSeq Size:** 2137 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 66054

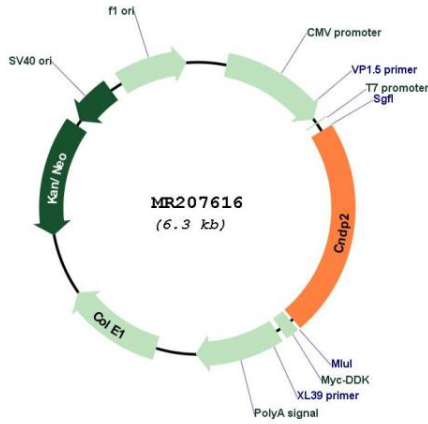
**UniProt ID:** [Q9D1A2](#)

**Cytogenetics:** 18 E4

**MW:** 52.8 kDa

**Gene Summary:** Hydrolyzes a variety of dipeptides including L-carnosine but has a strong preference for Cys-Gly. Catalyzes the production of N-lactoyl-amino acids from lactate and amino acids by reverse proteolysis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207616